

Amendments to the Claim(s)

We claim:

1 (Currently amended) An endotracheal tube (ET tube) with a primary aerosol delivery apparatus for delivery of an aerosolized medication to a tracheobronchial tree or lungs, which comprises:

-a hollow tubular body having a proximal open end, a distal open end, and a central lumen between the said proximal and distal open ends for ventilation, suctioning of secretions, delivery of medications, insertion of devices and other interventions for diagnostic and therapeutic purposes, the said tubular body with an outer annular surface and an inner annular surface, the said hollow tubular body with a uniform inner and a uniform outer diameter throughout it's length

-a secondary cannulation, the said cannulation further comprising a semi-flexible tubular structure with a proximal end and a distal end, the said cannulation disposed outside and adjacent to the hollow tubular body of ET tube, the proximal end of the said cannulation fused or mated with a medication dispenser with adapter (MDA), the distal end of the said cannulation fused or mated with a secondary canalization on the outer annular surface of the tubular body of the ET tube, the said cannulation with a uniform or a variable inner or outer diameter, the said inner or outer diameters of the said cannulation varying from 0.1mm to 1.0mm.

-a secondary canalization, the said canalization further comprising a tubular structure with a proximal end and a distal open end (lumen), the said canalization disposed in the said tubular body between the said outer annular surface and the said inner annular surface, the said canalization extending along a part of the length of the said tubular body, the said canalization with 100% of it's length disposed in the said tubular body, the said canalization with uniform or variable inner diameter varying from 0.1mm to 1.0mm, the said inner diameter of the said canalization may be same or different from the said inner diameter of the said cannulation, the proximal end of the said secondary canalization fused or mated to the distal end of the said secondary cannula, the said distal open end (lumen) of the said canalization terminating at the distal end of the said tubular body without extending beyond the said tubular body, the said lumen with diameter varying from 0.1mm to 2.0mm, the said diameter may be same or different from the said inner diameter of

the said secondary canalization, the proximal end of the said canalization disposed closer to the outer annular surface and the distal open end disposed closer to the inner annular surface of the said tubular body such that longitudinal axis of the said secondary canalization is not parallel to longitudinal axis of the said tubular body, the said distal open end (lumen) is an exit port for delivery of aerosolized medication to the lungs, the said aerosolized medication is dispensed at the distal open end (lumen) of the secondary cannulation directly into the tracheobronchial tree and not into the central lumen of the said ET tube.

-a medication dispenser with adapter (MDA), the said MDA designed to fit a valve stem of a metered dose inhaler (MDI) canister, the said MDI canister having a supply of a medication and/or a propellant to dispense the said medication from the canister as aerosolized medication on actuation of the valve stem, the said aerosolized medication with a majority particles in a respirable range (1-5 microns)

2 (Currently amended) The ET tube of claim 1 wherein the said MDA comprises:

-a hollow cylindrical structure made of plastic material with a proximal lumen (inlet) and a distal lumen (outlet), the said inlet mates or fusion with the valve stem of the MDI canister, the said outlet mates or fusion with the semi-flexible secondary cannulation, the said adapter with a progressively decreasing inner circumference from the proximal inlet to the distal outlet over an entire length of the adapter, the said adapter with a length, an inlet and an inner circumference to adequately mates or fuse with all commercially available MDI valve stems, the said fusion permitting a full depression of the valve stem and a 100% dose output from a nozzle of the valve stem on actuation of the said canister,

3 (New) The ET tube of claim 1 and 3 with a secondary aerosol delivery apparatus for delivery of aerosolized medication to the tracheobronchial tree or lungs, which comprises:

-an additional secondary cannulation, an additional secondary canalization and an additional medication dispenser with adapter (MDA)

-The said additional secondary cannulation, the said secondary canalization and the said additional medication dispenser with adapter (MDA) with characteristics identical or different to the said ET tube with primary aerosol delivery apparatus